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AGRICULTURAL MEMORANDUM NO 644

WIND AND TEMPERATURE IN RELATION TO THE LOSS OF HEAT FROM GLASSHOUSES - II

by F P Sims

Agricultural Memorandum No 614 gave the percentage frequencies with which the rate of heat loss from glasshouses was within specified ranges, based on wind and temperature frequencies for various locations. The values given covered the whole 24 hours, but new Tables have been worked out taking the night time and day time periods separately, and are given below.

The same method and observing stations as in the previous Agricultural Memorandum were used, but the periods of the observations differed a little and were as follows:

Elmdon	1958-1971
Pershore	1959-1967
Shawbury	1958-1971
Thorney Island	1958-1971

Some regrouping of the data was also carried out to make computer treatment easier; the total frequencies now differ slightly from the previous ones but are considered to be more accurate.

Comparing the night and day values for each location it is evident that heat losses during the night are only marginally greater than in the day time, again demonstrating that wind is equally as important as low night temperatures. No account has of course been taken of day time solar heating.